

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: FILE: DECO-Monroe Plt - MI0001848

FROM Christine Aiello, Industrial and Storm Water Permits Unit, Water Resources Division

DATE: March 18, 2021

SUBJECT: Treatment Technology-Based Effluent Limits (TTBELs) Recommendation

An application was submitted on April 9, 2014 and amended through \_\_\_\_\_, 2021, requesting reissuance of an NPDES permit for the DTE Electric Company Monroe Power Plant. The power plant produces electricity for sale and distribution. The SIC code for this industry is 4911. The Monroe Plant is a coal-fired facility with an output of 3080 megawatts. There are four generating units. This production process is regulated by 40 CFR 423 – Steam Electric Power Generating Point Source Category.

Effluent Limitation Recommendations

The following Treatment Technology-Based Effluent Limitations are based on **BPT** (40 CFR 423.12) and **BAT** (40 CFR 423.13).

Monitoring Point 001A:

Once through noncontact cooling water

Total Residual Chlorine (TRC): 0.2 mg/l maximum concentration

TRC Discharge Time: Not more than 2 hours/day/unit

Monitoring Point 001B:

Storm water impacted by residual process wastewater within an inactive coal combustion residual basin

Monitoring Point 001D:

Low volume wastewaters

Monitoring Point 001F:

Fly ash transport water

Monitoring Point 001G:

Bottom ash transport water and nonchemical metal cleaning wastewater

Monitoring Point 001H:

Bottom ash transport water, fly ash transport water, coal pile runoff, chemical and nonchemical metal cleaning wastewater, low volume wastewater, treated flue gas desulfurization wastewater, flue gas desulfurization pre-treatment system backwash, and dredging dewatering water

Monitoring Point 001J:

Flue gas desulfurization wastewater and chemical metal cleaning wastewater

Monitoring Point 001K:

Nonchemical metal cleaning wastewater

The following effluent limits apply to monitoring points 001D, 001F, 001G, 001H, 001J, and 001K, except for the effluent limits for Total Copper and Total Iron which are applicable only to the chemical metal cleaning wastewaters.

<u>Parameters</u>	<u>30-Day Average</u>	<u>Maximum Daily</u>
Total Suspended Solids	30 mg/l	100 mg/l
Oil and Grease	15 mg/l	20 mg/l
Total Copper	1.0 mg/l	1.0 mg/l
Total Iron	1.0 mg/l	1.0 mg/l

Comments & Additional Recommendations

1. The pH of all discharges, except once through cooling water, shall be within the range of 6.0 – 9.0 Standard Units.
2. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.